

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C219/04 C07C213/08 C07C215/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 897 355 A (SYNTEX INC. (USA)) 30 January 1990 (1990-01-30) column 20, line 45 - column 22, line 29; examples 1,2	1-18
Y	TAN REN, DEXI LIU: "Synthesis of Cationic Lipids from 1,2,4-Butanetriol" TETRAHEDRON LETTERS, vol. 40, 1999, pages 209-212, XP002320690 page 211; figure 4	1-18
Y	DE 40 13 632 A (MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFT EV) 31 October 1991 (1991-10-31) cited in the application page 10, line 25 - line 68	1-18
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\* & \* document member of the same patent family

Date of the actual completion of the international search

10 March 2005

Date of mailing of the international search report

23/03/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 925 623 A (THE REGENTS OF THE UNIVERSITY OF CALIFARNIA) 20 July 1999 (1999-07-20) the whole document -----	1-21
A	US 5 264 618 A (VICAL INC.) 23 November 1993 (1993-11-23) the whole document -----	1-21

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052788

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4897355	A	30-01-1990	US 5366737 A	22-11-1994
			US 5622712 A	22-04-1997
			US 6387395 B1	14-05-2002
			US 5545412 A	13-08-1996
			US 5550289 A	27-08-1996
			US 4946787 A	07-08-1990
			US 5049386 A	17-09-1991
			US 5208036 A	04-05-1993
			AT 50983 T	15-03-1990
			AU 594654 B2	15-03-1990
			AU 5185386 A	17-07-1986
			CA 1288774 C	10-09-1991
			DE 3669503 D1	19-04-1990
			EP 0187702 A1	16-07-1986
			JP 1935808 C	26-05-1995
			JP 6062517 B	17-08-1994
			JP 61161246 A	21-07-1986
			JP 2546623 B2	23-10-1996
			JP 7070011 A	14-03-1995
			NZ 214716 A	26-04-1989
			ZA 8600081 A	26-08-1987
DE 4013632	A	31-10-1991	DE 4013632 A1	31-10-1991
			AT 107503 T	15-07-1994
			AU 643282 B2	11-11-1993
			AU 7770291 A	27-11-1991
			CA 2081119 A1	28-10-1991
			DE 59102030 D1	28-07-1994
			DK 526531 T3	22-08-1994
			WO 9116880 A1	14-11-1991
			EP 0526531 A1	10-02-1993
			ES 2056648 T3	01-10-1994
			IE 911427 A1	06-11-1991
			JP 5506661 T	30-09-1993
			PT 97500 A , B	31-01-1992
US 5925623	A	20-07-1999	US 5869715 A	09-02-1999
			AT 264293 T	15-04-2004
			AU 7078396 A	30-04-1997
			AU 713093 B2	25-11-1999
			AU 7372996 A	17-04-1997
			CA 2233064 A1	03-04-1997
			DE 69632210 D1	19-05-2004
			EP 1019361 A1	19-07-2000
			JP 2002515024 T	21-05-2002
			WO 9713743 A1	17-04-1997
			WO 9711935 A1	03-04-1997
			US 5824812 A	20-10-1998
US 5264618	A	23-11-1993	AT 181319 T	15-07-1999
			AU 7854791 A	11-11-1991
			CA 2079814 A1	20-10-1991
			DE 69131347 D1	22-07-1999
			DE 69131347 T2	30-03-2000
			DK 523189 T3	13-12-1999
			EP 0523189 A1	20-01-1993
			ES 2134775 T3	16-10-1999
			GR 3030974 T3	31-12-1999

## INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/EP2004/052788

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5264618	A	JP 2538474 B2	25-09-1996
		JP 5508626 T	02-12-1993
		WO 9116024 A1	31-10-1991
		US 5459127 A	17-10-1995

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